Leading the Launch

Delivering a payload of responsive technologies

Technology Deployment

IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY

INEEL

HOME OF SCIENCE AND ENGINEERING SOLUTIONS

Global Positioning Radiometric Scanner

Problem
INEEL's Test Area North Remediation project needed a radiological survey of open terrain.

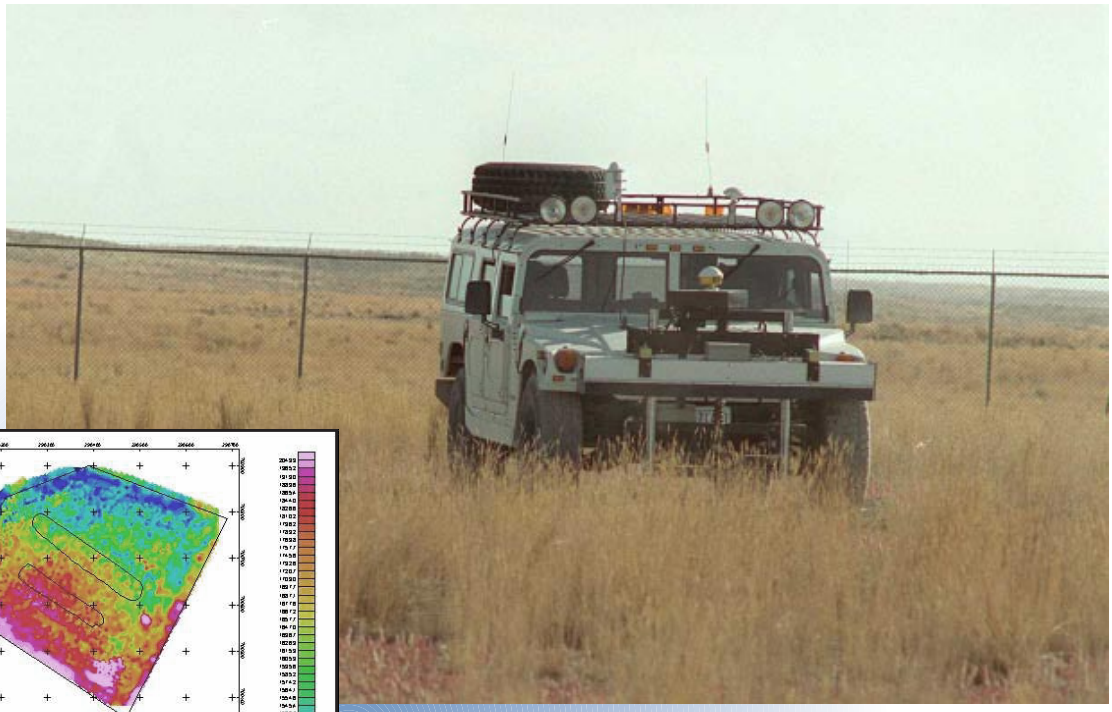
Baseline Technology
Manual layout of grid, manual survey, and drafting of map.

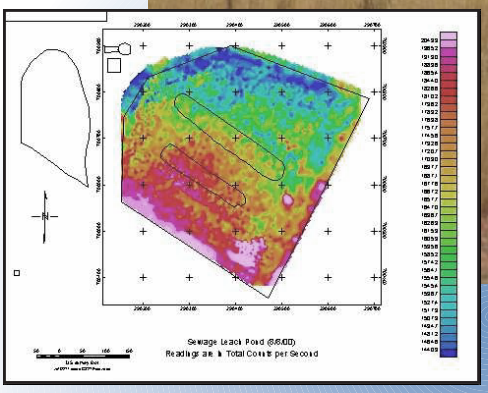
Innovative Technology
The Global Positioning Radiometric Scanner integrates a vehicle-mounted gamma detector, global positioning system, and on-board data management system.

Comparison
This system draws radiological survey maps four times faster than the baseline approach.

Benefits
This system enabled the project to reduce worker exposure and accelerate schedule while rapidly identifying areas of concern prior to soil removal near the Technical Support Facility.

Project: ID-ER-101
Test Area North Remediation
OST #2954





Global Positioning Radiometric Scanner

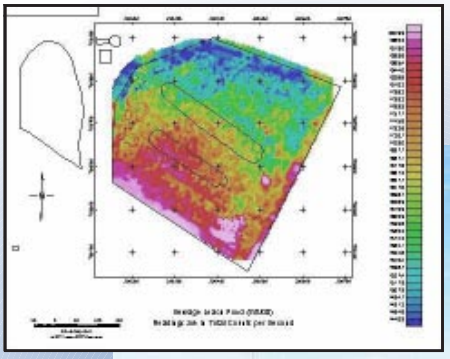
Problem
INEEL's Test Reactor Area Remediation project needed contamination surveys of the warm-water waste and sewage leach ponds.

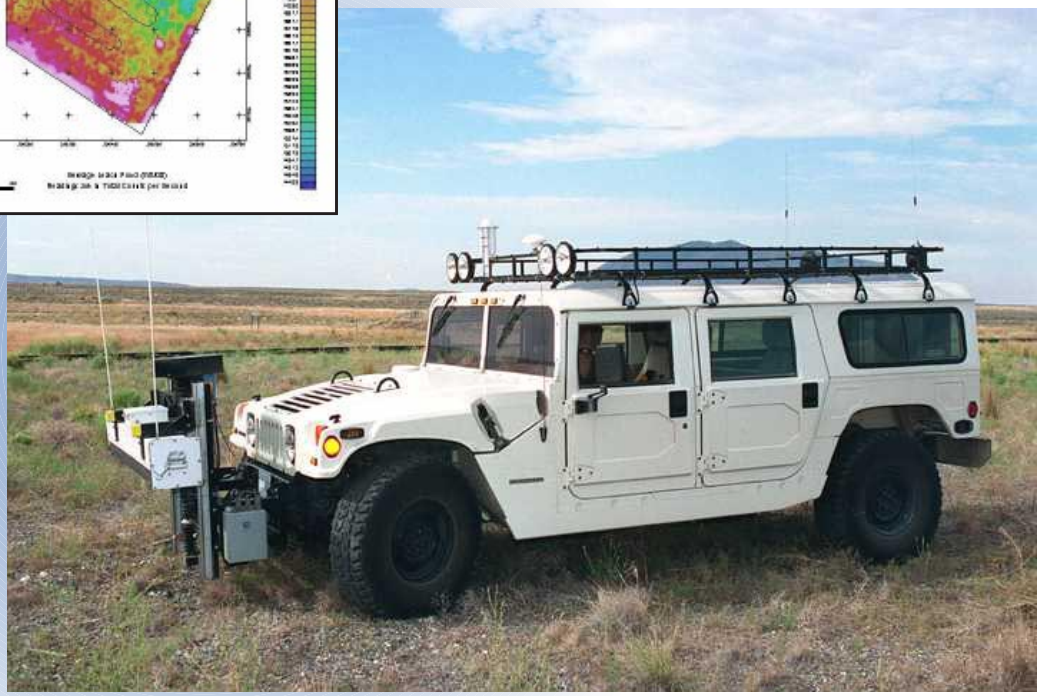
Baseline Technology
Manual layout of grid, manual survey, and drafting of map.

Innovative Technology
The Global Positioning Radiometric Scanner integrates a vehicle-mounted gamma detector, global positioning system, and on-board data management system.

Comparison
This system draws radiological survey maps four times faster than the baseline approach.

Benefits
This system enabled the project to rapidly and efficiently verify the integrity of installed landfill covers.





Global Positioning Radiometric Scanner

Problem
INEEL's Central Facilities Area Remediation project needed a contamination survey of the sewage plant drainfield for windblown particulate.

Baseline Technology
Manual layout of grid, manual survey, and drafting of map.

Innovative Technology
The Global Positioning Radiometric Scanner integrates a vehicle-mounted gamma detector, global positioning system, and on-board data management system.

Comparison
This system draws radiological survey maps four times faster than the baseline approach.

Benefits
This system enabled the project to reduce worker exposure and accelerate schedule while rapidly verifying existing radiological survey maps of the drainfield.

Project: ID-ER-104
Central Facilities Area (CFA) Remediation
OST #2954